

REVISIONS TO CLAIMS

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Index
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1. (currently amended) An optical wavefront modifier for modifying a wavefront of an optical beam passing through the modifier, the modifier comprising a first and a second transparent electrode layer and a medium for modifying the wavefront in dependence on electrical excitation of the medium and arranged between the electrode layers, the first electrode layer comprising three or more electrodes of a transparent, conductive material, characterized in that the first electrode layer comprises a series arrangement of resistors, the electrodes being electrically connected to the series arrangement of resistors and the resistors being made of said transparent, conductive material
wherein the series arrangement of resistors is integrated in the electrodes.

2. (currently amended) Optical wavefront modifier according to Claim 1, wherein at least the first electrode layer comprises three terminals, which are electrically connected to the series arrangement of resistors.

3. (original) Optical wavefront modifier according to Claim 1, wherein the electrodes have a configuration for imparting a wavefront modification in Seidel form.

4. (cancelled)

5. (currently amended) A device for scanning an optical record carrier having a transparent layer and an information layer, comprising a radiation source for generating a radiation beam, an objective system for converging the radiation beam through the transparent layer to a focus on

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REVISIONS TO CLAIMS

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4 the information layer, and a detection system for intercepting radiation from the record carrier,
5 characterized in that an optical wavefront modifier according to claim 1 is arranged in the optical
6 path between the radiation source and the detection system.

6. (new) A device for scanning an optical record carrier having a transparent layer and an
information layer, comprising a radiation source for generating a radiation beam, an objective
system for converging the radiation beam through the transparent layer to a focus on the
information layer, and a detection system for intercepting radiation from the record carrier,
characterized in that an optical wavefront modifier according to claim 2 is arranged in the optical
path between the radiation source and the detection system.

7. (new) A device for scanning an optical record carrier having a transparent layer and an
information layer, comprising a radiation source for generating a radiation beam, an objective
system for converging the radiation beam through the transparent layer to a focus on the
information layer, and a detection system for intercepting radiation from the record carrier,
characterized in that an optical wavefront modifier according to claim 3 is arranged in the optical
path between the radiation source and the detection system.

8. (new) A wavefront modifier arranged to receive and modify an incident radiation beam, the
modifier comprising:

- a first and a second transparent electrode layer, at least the first electrode layer comprising
three or more electrodes of a transparent, conductive material, the electrodes defining a first

REVISIONS TO CLAIMS

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center of symmetry, the first layer being positioned so that the first center of symmetry is displaced from an optical center of the radiation beam in a first displacement direction; and

- a medium for modifying the wavefront in dependence on electrical excitation of the medium and arranged between the electrode layers.

9. (new) The modifier of claim 8 wherein the second layer has a configuration substantially identical to the first electrode layer, and defining a second center of symmetry, said second center of symmetry being displaced from the optical center of the radiation beam according to a second displacement direction, which second displacement direction is different from the first displacement direction.

10. (new) A device for scanning an optical record carrier having a transparent layer and an information layer, comprising

- a radiation source for generating the radiation beam,
- an objective system for converging the radiation beam through the transparent layer to a focus on the information layer, and
- a detection system for intercepting radiation from the record carrier,
- an optical wavefront modifier according to claim 8 arranged in the optical path between the radiation source and the detection system, wherein the first direction of displacement is chosen to compensate for an expected motion of the optical record carrier during play.